

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/19/2010 has been entered. Claim 2 has been canceled and accordingly claims 1 and 3-9 are currently pending in this application.

Drawings

2. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: the applicant agreed to include the newly amended limitation "using a valve" in the drawing. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Remus Fetea on 6/29/2010.

The application has been amended as follows:

Claim 1 has been amended to - -

1.(Currently Amended) A gas turbine system for controlling and optimizing emissions of a catalytic combustor ~~in a gas turbine including a compressor and a turbine, the system comprising;~~, the gas turbine comprising:

a compressor, the catalytic combustor and a turbine;

at least one calculation unit configured to implement a mathematical model of an operation of the gas turbine,

wherein the mathematical model links a flow rate of a bleed system of the compressor to (i) an ambient temperature and (ii) a rotation of adjustable vanes that control a fluid entering the compressor, and

the at least one calculation unit adjusts the flow rate of the bleed system of the compressor, using a valve, based on the ambient temperature and the rotation of the adjustable vanes of the compressor such that the emissions are optimized during variations of operating conditions of the turbine over a range of external environmental conditions from approximately -29°C to +49°C. - -

Note that the support for the limitation "using a valve" can be found on page 11, lines 3-5 of the specification.

Allowable Subject Matter

4. Claims 1 and 3-9 are allowed.
5. The following is an examiner's statement of reasons for allowance: The closest prior art Scheider (US Patent No. 6,584,775, see col. 9, lines 34-50) fails to disclose or render obvious of a gas turbine having a catalytic combustor and at least one calculation unit adjusts the flow rate of the bleed system of the compressor, using a valve, based on the ambient temperature and the rotation of the adjustable vanes of the compressor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUTTHIWAT WONGWIAN whose telephone number is 571-270-5426. The examiner can normally be reached on Monday - Thursday, 7:30am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL A. CUFF can be reached on 571-272-6778. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/P. W./
Examiner, Art Unit 3741

/Michael Cuff/
Supervisory Patent Examiner, Art Unit 3741